

WHAT IS CLAIMED IS:

1. An electric bending endoscope comprising:
a bending portion arranged to an inserting portion;
a bending driving unit which bends the bending portion,
the bending driving unit including a motor which generates
driving force for bending the bending portion, a first unit
which holds the motor, and a second unit which includes a
driving force transmitting member that transmits the driving
force of the motor to bend the bending portion by the
driving force of the motor; and
a buffering member which connects the first unit to an
outer member of the inserting portion, a connecting code,
and a switch arranged to the electric bending endoscope, the
buffering member absorbing external force generated during
the operation of the electric bending endoscope.
2. The electric bending endoscope according to Claim 1,
wherein the buffering member absorbs the external force
conveyed to the first unit from the outer member of the
inserting portion, the connecting code, and the switch
arranged to the electric bending endoscope.
3. The electric bending endoscope according to Claim 2,
wherein a proximal end of the inserting portion has an

operating portion, and the first unit is accommodated in the operating portion while the buffering member detaches the first unit from the outer member of the operating portion.

4. The electric bending endoscope according to Claim 3, wherein the first unit comprises an outer frame and an inner frame for holding the motor, and the outer member of the inserting portion, the connecting code, and the switch arranged to the electric bending endoscope are connected to the inner frame via the buffering member.

5. The electric bending endoscope according to Claim 4, further comprising:

a fixing member which fixes the inner frame of the first unit and a main frame arranged to the second unit.

6. The electric bending endoscope according to Claim 5, wherein the inner frame and the main frame of the second unit are fixed by using the fixing member with a positioning tool which positions the inner frame and the main frame in the second unit in three-axial direction.

7. The electric bending endoscope according to Claim 1, wherein a wheel is arranged to a driving shaft of a driving force transmitting member of the second unit, and a rotating

shaft of the wheel is arranged in front of the operating portion on a side cross-section of the operating portion in the electric bending endoscope, with respect to the central axis of the inserting portion.

8. The electric bending endoscope according to Claim 1, wherein, in an operation lever arranged to the operating portion for operating the bending driving unit, an angle is formed between the center axis of the inserting portion in the electric bending endoscope and the center axis of the operation lever at the neutral position thereof, and the angle is $(135^\circ \pm 15^\circ)$,

an inclined angle of the operation lever is $\pm 30^\circ$ from the center of the operation lever, and

the inclined center position of the operation lever is arranged in front of the operating portion, with respect to the center position of the inserting portion in the electric bending endoscope.

9. The electric bending endoscope according to Claim 8, wherein the operation lever is arranged such that an angle is formed between the center axis of the operation lever at the neutral position thereof and the operating directions of an operating switch including at least an air and water supply button and a suction button, and the angle is 30° or

more.

10. An electric bending endoscope comprising bending driving unit which bends a bending portion arranged to an edge side of an inserting portion thereof,

wherein the bending driving unit comprises at least two detachable units of:

a frame unit which holds a motor as a driving source for bending the bending portion; and

a bending and stretch mechanism unit which has a driving force transmitting member for bending the bending portion by using rotation driving force from the motor, and

wherein an outer member of the inserting portion, a universal code, and necessary switches for operating the operations of the electric bending endoscope are connected to the frame unit via a mediating member.

11. The electric bending endoscope according to Claim 10, wherein the frame unit comprises:

an outer frame; and

an inner frame which holds the motor and which is made of a hard member with high intensity from the outer frame, and

wherein the outer member of the inserting portion, the universal code, and the switches are connected to the inner

frame via the mediating member.

12. An electric bending endoscope comprising:
a bending portion arranged to an inserting portion; and
bending driving means which bends the bending portion,
wherein the bending driving means comprises:

driving force generating means which generates
driving force for bending the bending portion;
a first unit which holds the driving force
generating means;
a second unit which has a driving force
transmitting member which transmits the driving force of the
driving force generating means and bends the bending portion
by the driving force of the driving force generating means,
and

wherein the first unit is connected to an outer member
of the inserting portion, a connecting code, and operating
means arranged to the electric bending endoscope so as to
absorb external force generated during the operation of the
electric bending endoscope.